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Bowles, J.B.; Dobbins, J.G.;

Reliability and Maintainability Symposium, 1998. Proceedings., Annual , 19-22 Jan. 1998

Pages:268 - 273

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17 LH*s: a high-availability and high-security scalable distributed data structure

Litwin, W.; Neimat, M.-A.; Lev, G.; Ndiaye, S.; Seck, T.;

Research Issues in Data Engineering, 1997. Proceedings. Seventh International Workshop on , 7-8 April 1997

Pages:141 - 150

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18 Turbo-alternators: a high-availability backup source of energy

Chigolet, J.C.; Huet, S.;

Telecommunications Energy Conference, 1993. INTELEC '93. 15th International , Volume: 1 , 27-30 Sept. 1993

Pages:298 - 302 vol.1

[\[Abstract\]](#) [\[PDF Full-Text \(260 KB\)\]](#) IEEE CNF

19 High availability is not enough [distributed systems]

Triantafillou, P.;

Management of Replicated Data, 1992., Second Workshop on the , 12-13 Nov. 1992

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Witold Litwin, Thomas Schwarz

 May 2000 **ACM SIGMOD Record , Proceedings of the 2000 ACM SIGMOD international conference on Management of data**, Volume 29 Issue 2

 Full text available: [pdf\(155.52 KB\)](#) Additional Information: [full citation](#), [abstract](#), [references](#), [index terms](#)

LH*RS is a new high-availability Scalable Distributed Data Structure (SDDS). The data storage scheme and the search performance of LH*RS are basically these of LH*. LH*RS manages in addition the parity information to tolerate the unavailability of $k + 1$ server sites. The value of k scales with the file, to prevent the reliability decline. The parity calculus uses the Reed-Solomon Codes. The storage and access performance over ...

Keywords: Reed-Solomon Codes, SDDS, high-availability, scalable
2 [Providing high availability using lazy replication](#)

Rivka Ladin, Barbara Liskov, Liuba Shrira, Sanjay Ghemawat

 November 1992 **ACM Transactions on Computer Systems (TOCS)**, Volume 10 Issue 4

 Full text available: [pdf\(2.46 MB\)](#) Additional Information: [full citation](#), [abstract](#), [references](#), [citations](#), [index terms](#), [review](#)

To provide high availability for services such as mail or bulletin boards, data must be replicated. One way to guarantee consistency of replicated data is to force service operations to occur in the same order at all sites, but this approach is expensive. For some applications a weaker causal operation order can preserve consistency while providing better performance. This paper describes a new way of implementing causal operations. Our technique also supports two other kinds of operations: ...

Keywords: client/server architecture, fault tolerance, group communication, high availability, operation ordering, replication, scalability, semantics of application
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Wayne D. Grover

 August 1999 **IEEE/ACM Transactions on Networking (TON)**, Volume 7 Issue 4

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1 Cluster-based scalable network services

Armando Fox, Steven D. Gribble, Yatin Chawathe, Eric A. Brewer, Paul Gauthier

 October 1997 **ACM SIGOPS Operating Systems Review , Proceedings of the sixteenth ACM symposium on Operating systems principles**, Volume 31 Issue 5
Full text available: [pdf\(2.42 MB\)](#)Additional Information: [full citation](#), [references](#), [citations](#), [index terms](#)

2 Optimizing data aggregation for cluster-based internet services

Lingkun Chu, Hong Tang, Tao Yang, Kai Shen

 June 2003 **ACM SIGPLAN Notices , Proceedings of the ninth ACM SIGPLAN symposium on Principles and practice of parallel programming**, Volume 38 Issue 10
Full text available: [pdf\(275.38 KB\)](#)Additional Information: [full citation](#), [abstract](#), [references](#), [index terms](#)

Large-scale cluster-based Internet services often host partitioned datasets to provide incremental scalability. The aggregation of results produced from multiple partitions is a fundamental building block for the delivery of these services. This paper presents the design and implementation of a programming primitive -- Data Aggregation Call (DAC) -- to exploit partition parallelism for cluster-based Internet services. A DAC request specifies a local processing operator and a global reduction operation ...

Keywords: cluster-based network services, fault tolerance, load-adaptive tree formation, response time, scalable data aggregation, throughput

3 The AROUND architecture for dynamic location-based services

Rui José, Adriano Moreira, Helena Rodrigues, Nigel Davies

 August 2003 **Mobile Networks and Applications**, Volume 8 Issue 4
Full text available: [pdf\(194.30 KB\)](#)Additional Information: [full citation](#), [abstract](#), [references](#), [index terms](#)

This paper presents a generic concept of location-based service as an abstraction for supporting the association between computational resources and location. The objective is to extend the advantages of service-based architectures to the development of location-based systems, thus providing a more open and extensible alternative to the "vertical" approaches typically used in this type of system. The novel AROUND architecture is proposed as an approach for supporting location-based services in t ...

Keywords: info-mobility, location-based services, mobile computing, service discovery

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Bhide, A.;

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2 Balanced high availability in layered distributed computing systems

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Database and Expert Systems Applications, 2003. Proceedings. 14th International Workshop on , 1-5 Sept. 2003

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3 The design of high availability in the Dawning server consolidation system

Mingyu Chen; Wen Gao; Wensheng Zhang; Lihui Wu;

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Pages:436 - 438 vol.1

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4 LH*g: a high-availability scalable distributed data structure by record grouping

Litwin, W.; Risch, T.;

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